OVERVIEW STATEMENT

Whether you want to design dynamic intelligent systems, debug embedded software systems or engineer a new way to protect electronic information, you can get there with a degree in computer science or software engineering from Florida Tech. Here, you’ll develop a strong foundation in computer science that software engineers and computer scientists depend upon and get hands-on experience in the design and development of software products.

Our computer science and software engineering programs are dynamic and focused. You’ll get started right away, taking core courses like Fundamentals of Software Development and Computer Organization as a freshman. Guided by highly qualified faculty who care about your success, you’ll hone your strengths and begin specializing in computing as early as sophomore year. Beyond the classroom, computer science and software engineering majors build leadership and professional experience through exciting internships and participation in academic organizations like the Association for Computer Machinery, Upsilon Pi Epsilon (the honor society for the computing and information disciplines), student government and over 100 other student organizations.

As a senior, you’ll complete an exciting senior design project in collaboration with a team of your peers. Together, you’ll conceptualize, design, implement and operate a software application that fulfills a real-world need. You’ll present your project to industry leaders and employers. As a result, you get practical experience, an expanded professional network and perhaps even a pre-graduation job offer.

You may be able to compete in international events. Our ACM programming teams have traveled the world, most recently going to Harbin, China, to compete in 2010.

Employers that have recruited Florida Tech computer science and software engineering students for internships and careers include IBM, EA Games, General Electric, Google, Microsoft, Mozilla, the NSA and Zynga. Many undergraduate students go on to graduate school at universities such as Florida Tech, Brown, Georgia Tech, Johns Hopkins, Stanford, UCLA and the University of Washington.

Computing and software are changing the world in which we live at an accelerated rate. At Florida Tech, we are leading in these changes. Come and participate in these exciting achievements. Envision yourself at Florida Tech—a university already operating in the future—and imagine how far a world-class degree in computer science or software engineering will take you.
Research

Faculty and students conduct research in many areas of software engineering. In the Center for Software Testing, Education and Research, faculty and students are creating effective, grounded, timely materials to support the teaching and self-study of software testing, software reliability and quality-related software metrics.

In the Harris Institute for Assured Information, people study the development of secure software, cyber security, malicious code, cryptology, authenticated negotiations and other topics that keep our cyberinfrastructure safe and secure.

Intelligent systems is another signature research area of the department. Faculty and students conduct research in data mining, machine learning, computer vision, distributed negotiations, complex networks and other areas that are putting intelligence into software.

System maintenance and evolution is another topic area where our faculty and students conduct research. This work includes change impact analysis, program comprehension and visualization, redocumentation of code, developing service-oriented architectures, reverse engineering for program understanding, end-user programming, cloud computing, hypermedia, technology assessment, and website evolution.

Faculty and students at Florida Tech are conducting interesting research in software engineering. We encourage all bright and talented individuals to join us in these exciting explorations.